## Loutice pt. sisteme IIR door on poli

$$H(z) = \frac{1}{1 + \alpha_1 \cdot z + ... + \alpha_N z}$$

$$H(7) = \frac{0.7}{1 + 25.7 + 5.7} = \frac{0.7}{0.2} \cdot \frac{1}{1 + 25.7 + 5.7}$$

hversom y au X:

$$X[N] = -0(1 \times [N-1] - ... -0(N \times [N-N] + y[N]$$

$$Y[N] = X[N] + 0(1 \times [N-1] + ... + 0(N \times [N-N]$$

$$Y[X] = X[X] + 0(1 \times [N-1] + ... + 0(N \times [N-N]$$

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## Louthie FIR:

$$f_m[n] = f_{m-1}[n] + K_m g_{m-1}[n-1]$$

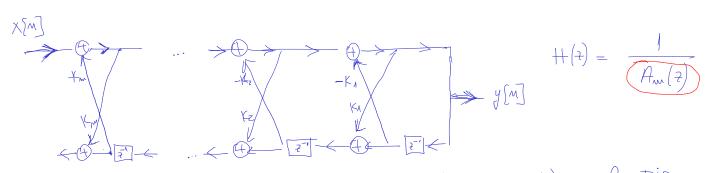
$$g_m[n] = K_m f_{m-1}[n] + g_{m-1}[n-1]$$

$$\int_{\mathcal{A}} u \left[ u \right]$$

$$+ \sum_{m=1}^{\infty} \left[ m \right] = + \sum_$$

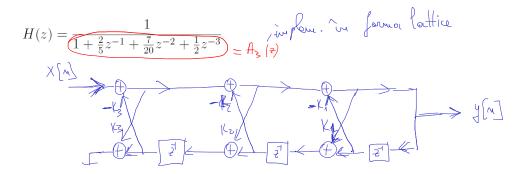
$$g_{m}[M] = K^{m} \cdot f_{m-1}[M] + g_{m-1}[M-1]$$

 $f_{m-1}(m) = f_{m}(m)$   $g_{m-1}(m) = g_{m}(m)$ 



K1, K2, ... Kon se about du numitoral lai H(2), ca la FIR

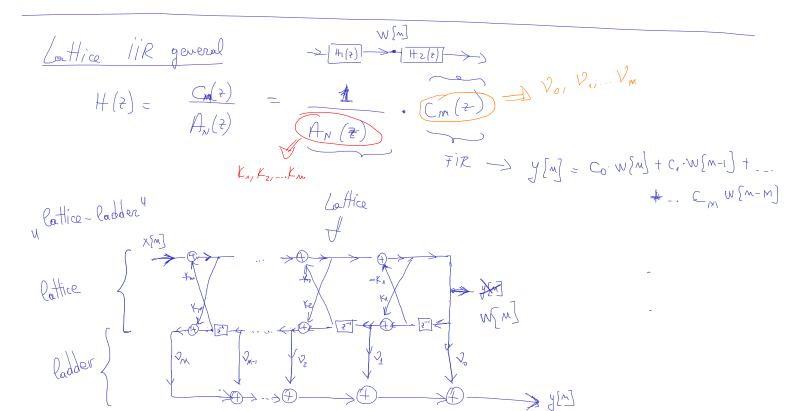
## Exercipal 2, Lab 6



K11 K2, K3: du numitor:

$$A_3(z) = 1 + \frac{2}{5}z^{-1} + \frac{7}{20}z^{-2} + \frac{1}{2}z^{-3}$$

Le lor exercitivel precedent => 
$$K_3 = \frac{1}{2}$$
 $K_2 = \frac{1}{4}$ 



V<sub>K</sub> se calc. du numeratorul Cm (2)

$$C_{m}(z) = C_{m-1}(z) + V_{m} B_{m}(z)$$

$$C_{m-1}(z) = C_{m}(z) - V_{m} B_{m}(z)$$

$$V_{m} = \text{ultimul coef. of polinouslui} C_{m}(z)$$

